

Appl. No. 10/807,788
Amdt. Dated Aug 4, 2005
Reply to Office action of July 29, 2005

Amendments to the Specification:

Please replace the 1st paragraph under BACKGROUND DESCRIPTION OF PRIOR ART with the following:

A quartz crystal oscillator consists of a crystal resonator and a sustaining circuit. The quartz crystal itself has various modes of resonance such as the fundamental thickness shear mode, overtone thickness shear modes, extensional modes, flexural modes, etc. In many cases one of the modes is significantly more active than the others and oscillations commence on the frequency of that mode. It is often possible to design the sustaining circuit to favor a particular mode of oscillation, e.g. the third overtone rather than the fundamental mode and produce oscillations on that frequency. In the case of a stress compensated (SC) quartz crystal, selection of a C-mode or B-mode is also possible. The B and C modes are close in frequency, within 10%, and fairly sharp frequency selection circuits are necessary in the sustaining circuit to select a particular mode. The use of sharp frequency selective elements in the sustaining circuit generally results in a degradation of the frequency stability of the quartz resonator because of variations in the selective elements such as inductors that change in value with temperature, with time or exhibit retrace characteristics.